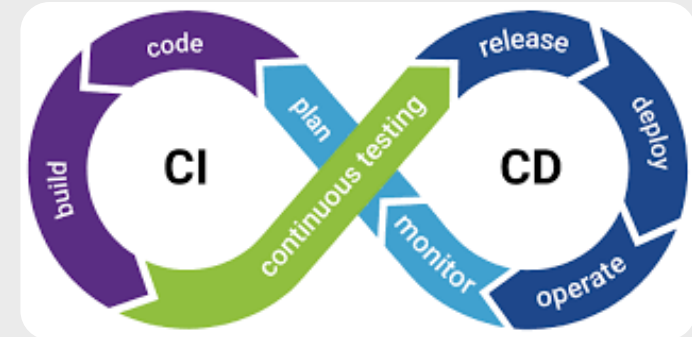


# CI/CD

Go to Market

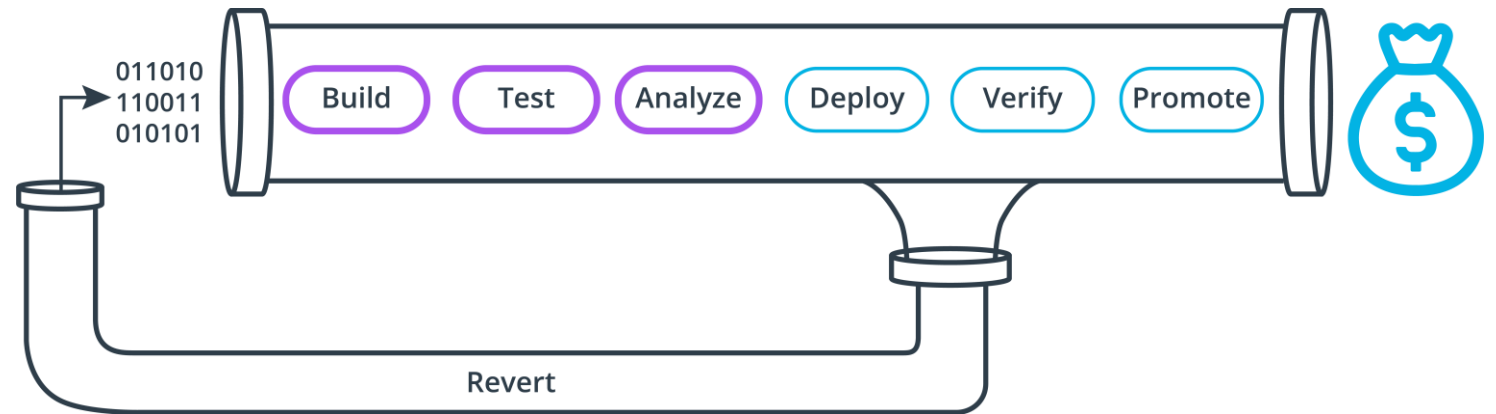
**Increase Revenue**

Mohamed Farag  
DevOps Engineer



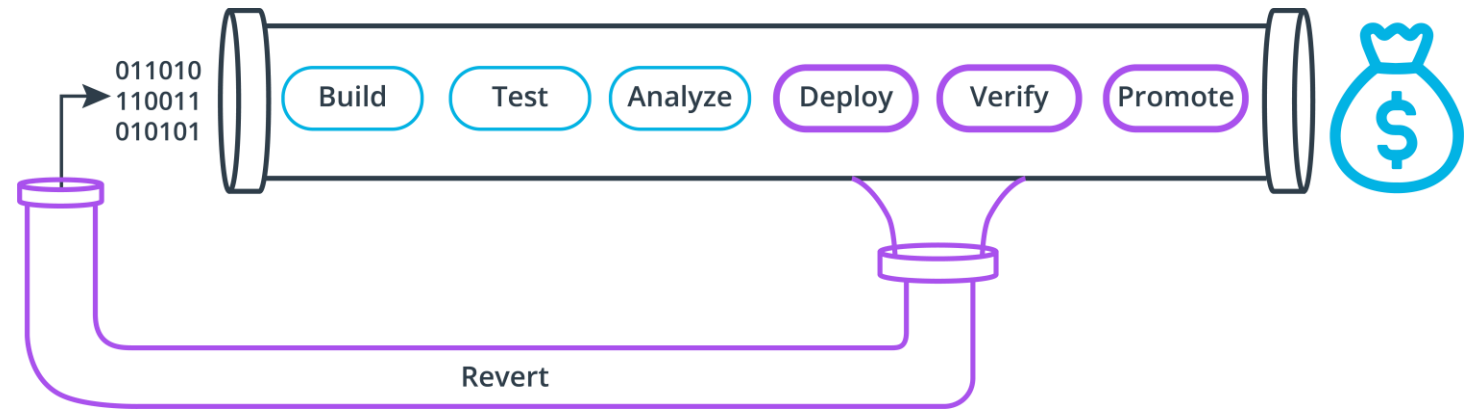
# Continuous Integration (CI)

- The practice of merging all developers' working copies to a shared mainline several times a day.
- It is all about code and “Dev” workflow.
- Common **CI** Related Phases:
  - Compile.
  - Unit test.
  - Static Analysis.
  - Dependency vulnerability testing.
  - Store artifact.



# Continuous Deployment (CD)

- An engineering practice in which teams produce and release value in short cycles.
- It is all about built code and deployment “Ops”.
- Common **CD** Related Phases:
  - Creating infrastructure.
  - Provisioning servers.
  - Copying files.
  - Promoting production.
  - Smoke testing.
  - Rollbacks



# CICD Benefits

## 1. Reduce Cost

- Less developer time on issues from new developer code.
- Fewer infrastructure costs from unused resources.

## 2. Avoid Cost

- Fewer bugs in production and less time in testing.
- Prevent embarrassing or costly security holes.
- Less human error, Faster deployments.



# CICD Benefits

## 1. Protect Revenue

- Reduced downtime from a deploy-related crash or major bug.
- Quick undo to return production to a working state.

## 2. Increase Revenue

- New value-generating features released more quickly.
- Less time to market.

